## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/06643

A. CLA IPC:	SSIFICATION OF SUBJECT MATTER G01V 1/28( 2006.01),1/34( 2006.01),1/36( 2006.	01)		
USPC: According to	367/25,36,37,38,43,50,51,52,68,72 International Patent Classification (IPC) or to both r	national clas	sification and IPC	
B. FIEL	DS SEARCHED			
	ocumentation searched (classification system followed 67/25,36,37,38,43,50,51,52,68,72	by classific	ation symbols)	
Documentati	on searched other than minimum documentation to th	e extent that	t such documents are included in	n the fields searched
	ata base consulted during the international search (nan continuation Sheet	ne of data b	ase and, where practicable, sear	rch terms used)
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	appropriate,	of the relevant passages	Relevant to claim No.
Α	US 6,480,118 B1 (RAO) 12 November 2002 (12.1)	1.2002), all		1-20
Α	US 6,473,696 B1 (ONYIA, et al) 29 October 2002	(29.10.2002	2), ali	1-20
Α	US 4,802,147 A (MOECKEL) 31 January 1989 (2	1.01.1989),	all	1-20
Α	US 4,802,146 A (MOECKEL) 31 January 1989 (2	1-20		
A	US 6,026,913 A (MANDAL, et al) 22 February 2000 (22.02.2000), all			1-20
A	US 2,596,463 (BARTHELMES) 13 May 1952 (12.05.1952), all			1-20
A	US 5,083,297 A (OSTRANDER) A 21 January 19	92 (21.01.1	992), all	1-20
	documents are listed in the continuation of Box C.		See patent family annex.	
* Special categories of cited documents:  "T" later document published after the international filing date and not in conflict with the application but cited the principle or theory underlying the invention of particular relevance.				ation but cited to understand
"B" earlier app date	"> x application or patent published on or after the international filing		document of particular relevance; the considered novel or cannot be considered step when the document is taken alone	red to involve an inventive
"L" document establish t specified)	locument which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
"O" document	referring to an oral disclosure, use, exhibition or other means	"&"	-	
"P" document published prior to the international filing date but later than the		-αt-	document member of the same patent f	amiy
Date of the ac	ctual completion of the international search (11.04.2006).	Date of m	ailing of the international searce 1 6 MAY 2006	h report
	iling address of the ISA/US	Anthorize		
Mail	Stop PCT, Attn: ISA/US	Scott Hug	Willen	_
P.O.	missioner for Patents Box 1450	Earlish State	$\mathcal{L}$	
_	zandria, Virginia 22313-1450 . (571) 273-3201	Telephone	No. 571-272-6983	
	\ \	L		

## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/06643

C. (Contin	uation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,232,378 A (ADAMS, et al) 4 November 1980 (04.11.1980), all	1-20
A	US 4,713,775 A (SCOTT, et al) 15 December 1987 (15.12.1987), all	1-20

INTERNATIONAL SEARCH REPORT	PCT/US05/06643	
•		
•		
Continuation of B. FIELDS SEARCHED Item 3: GeoRef: refractor, refraction, drilling, hazard, karsts, semblance, filtering		
EAST: refactor, refraction, seismic, drilling, filter, (sembalnce or coherence), stati-	cs	

Form PCT/ISA/210 (extra sheet) (April 2005)